RAW SEQUENCE LISTING

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Application Serial Number: _____ 09/862,855 _____

Source: _____ 01 PE _____

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RAW SEQUENCE LISTING   DATE: 09/15/2005
PATENT APPLICATION: US/09/862,855G   TIME: 11:44:25

Input Set : A:\PTO.RJ.txt
Output Set: N:\CRF4\09152005\I862855G.raw

```
   3 <110> APPLICANT: Cai, Hong
   4        Keller, Richard
   5        Werner, James
   6        Goodwin, Peter
   8 <120> TITLE OF INVENTION: RAPID HAPLOTYPING BY SINGLE MOLECULE DETECTION
  10 <130> FILE REFERENCE: S-94,652
  12 <140> CURRENT APPLICATION NUMBER: US 09/862,855G
  13 <141> CURRENT FILING DATE: 2001-05-21
  15 <160> NUMBER OF SEQ ID NOS: 21
  17 <170> SOFTWARE: PatentIn version 3.1
  19 <210> SEQ ID NO: 1
  20 <211> LENGTH: 20
  21 <212> TYPE: DNA
  22 <213> ORGANISM: Unknown
```
W--> 23 <220> FEATURE:
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  24 <223> OTHER INFORMATION: 20-mer probe complementary to 20 base pair region of M13mp18
target
  25        containing EcoR I restriction site
  27 <400> SEQUENCE: 1
  28 gctcgaattc gtaatcatcg                                              20
  31 <210> SEQ ID NO: 2
  32 <211> LENGTH: 18
  33 <212> TYPE: DNA
  34 <213> ORGANISM: Unknown
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W--> 35 <220> FEATURE:
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  36 <223> OTHER INFORMATION: 18-mer probe complementary to 18 base pair region of M13mp18
target
  37        containing Hind III restriction site
  39 <400> SEQUENCE: 2
  40 cagtgccaag cttcgatg                                                18
  43 <210> SEQ ID NO: 3
  44 <211> LENGTH: 97
  45 <212> TYPE: DNA
  46 <213> ORGANISM: Unknown
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W--> 47 <220> FEATURE:
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  48 <223> OTHER INFORMATION: Synthetic chimera template derived from genes MLL(HRX,Htrx)
and AF4(FEL)
  50 <400> SEQUENCE: 3
  51 gaagttccca aaaccactcc tagtgagccc aagaaaaagc agcctccacc accaaaacaa     60
  53 tatgatacat cttcaaaaac tcactcaaat tctcagc                             97
  56 <210> SEQ ID NO: 4
  57 <211> LENGTH: 27
  58 <212> TYPE: DNA
  59 <213> ORGANISM: Unknown
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W--> 60 <220> **FEATURE:**
    61 <223> OTHER INFORMATION: DNA probe sequence complementary to MLL portion of SEQ ID
NO:3

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```
     63 <400> SEQUENCE: 4
     64 aaaaatttct tgggcttcac tagggag                              27
     67 <210> SEQ ID NO: 5
     68 <211> LENGTH: 29
     69 <212> TYPE: DNA
     70 <213> ORGANISM: Unknown
W--> 71 <220> FEATURE:
     72 <223> OTHER INFORMATION: DNA probe sequence complementary to AF4 portion of SEQ ID
NO:3
     74 <400> SEQUENCE: 5
     75 aaaaaaattt gagtgagttt ttgaagatg                             29
     78 <210> SEQ ID NO: 6
     79 <211> LENGTH: 12
     80 <212> TYPE: DNA
     81 <213> ORGANISM: Unknown
W--> 82 <220> FEATURE:
     83 <223> OTHER INFORMATION: PNA probe sequence for MLL portion of SEQ ID NO:3
     85 <400> SEQUENCE: 6
     86 tttcttgggc tc                                               12
     89 <210> SEQ ID NO: 7
     90 <211> LENGTH: 12
     91 <212> TYPE: DNA
     92 <213> ORGANISM: Unknown
W--> 93 <220> FEATURE:
     94 <223> OTHER INFORMATION: PNA probe sequence for AF4 portion of SEQ ID NO:3
     96 <400> SEQUENCE: 7
     97 tttgagtgag tt                                               12
    100 <210> SEQ ID NO: 8
    101 <211> LENGTH: 12
    102 <212> TYPE: DNA
    103 <213> ORGANISM: Unknown
W--> 104 <220> FEATURE:
    105 <223> OTHER INFORMATION: LNA probe sequence for MLL portion of SEQ ID NO:3
    107 <400> SEQUENCE: 8
    108 tttcttgggc tc                                               12
    111 <210> SEQ ID NO: 9
    112 <211> LENGTH: 12
    113 <212> TYPE: DNA
    114 <213> ORGANISM: Unknown
W--> 115 <220> FEATURE:
    116 <223> OTHER INFORMATION: LNA probe sequence for AF4 portion of SEQ ID NO:3
    118 <400> SEQUENCE: 9
    119 tttgagtgag tt                                               12
    122 <210> SEQ ID NO: 10
    123 <211> LENGTH: 32
    124 <212> TYPE: DNA
    125 <213> ORGANISM: Unknown
W--> 126 <220> FEATURE:
    127 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
    128        variant for the HLA gene
```

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    130 <400> SEQUENCE: 10
    131 tggcagctca gaccaccaag cacaagtggg ag                              32
    134 <210> SEQ ID NO: 11
    135 <211> LENGTH: 76
    136 <212> TYPE: DNA
    137 <213> ORGANISM: Unknown
W--> 138 <220> FEATURE:
    139 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
    140       variant for the HLA gene
    142 <400> SEQUENCE: 11
    143 gcggcccatg tggcggagca gttgagagcc tacctggagg gcacgtgcgt ggagtggctc    60
    145 cgcagatacc tggaga                                                    76
    148 <210> SEQ ID NO: 12
    149 <211> LENGTH: 32
    150 <212> TYPE: DNA
    151 <213> ORGANISM: Unknown
W--> 152 <220> FEATURE:
    153 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
    154       variant for the HLA gene
    156 <400> SEQUENCE: 12
    157 tggcagctca gaccaccaag cacaagtggg ag                              32
    160 <210> SEQ ID NO: 13
    161 <211> LENGTH: 76
    162 <212> TYPE: DNA
    163 <213> ORGANISM: Unknown
W--> 164 <220> FEATURE:
    165 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
    166       variant for the HLA gene
    168 <400> SEQUENCE: 13
    169 gcggcccatg tggcggagca gcagagagcc tacctggagg gcacgtgcgt ggagtggctc    60
    171 cgcagatacc tggaga                                                    76
    174 <210> SEQ ID NO: 14
    175 <211> LENGTH: 32
    176 <212> TYPE: DNA
    177 <213> ORGANISM: Unknown
W--> 178 <220> FEATURE:
    179 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
    180       variant for the HLA gene
    182 <400> SEQUENCE: 14
    183 tggcagctca gaccacccaa gacaagtggg ag                              32
    186 <210> SEQ ID NO: 15
    187 <211> LENGTH: 76
    188 <212> TYPE: DNA
    189 <213> ORGANISM: Unknown
W--> 190 <220> FEATURE:
    191 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
    192       variant for the HLA gene
    194 <400> SEQUENCE: 15
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195 gcggcccatg tggcggagca gttgagagcc tacctggagg gcacgtgcgt ggacgggctc   60

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      197 cgcagatacc tggaga                                                  76
      200 <210> SEQ ID NO: 16
      201 <211> LENGTH: 32
      202 <212> TYPE: DNA
      203 <213> ORGANISM: Unknown
W--> 204 <220> FEATURE:
      205 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
      206         variant for the HLA gene
      208 <400> SEQUENCE: 16
      209 tggcagctca gaccacccaa ggcaagtggg ag                                32
      212 <210> SEQ ID NO: 17
      213 <211> LENGTH: 76
      214 <212> TYPE: DNA
      215 <213> ORGANISM: Unknown
W--> 216 <220> FEATURE:
      217 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
      218         variant for the HLA gene
      220 <400> SEQUENCE: 17
      221 gcggcccatg tggcggagca gcagagagcc tacctggagg gcacgtgcgt ggacgggctc   60
      223 cgcagatacc tggaga                                                  76
      226 <210> SEQ ID NO: 18
      227 <211> LENGTH: 32
      228 <212> TYPE: DNA
      229 <213> ORGANISM: Unknown
W--> 230 <220> FEATURE:
      231 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
      232         variant for the HLA gene
      234 <400> SEQUENCE: 18
      235 tggcagctca gaccacccaa ggcaagtggg ag                                32
      238 <210> SEQ ID NO: 19
      239 <211> LENGTH: 76
      240 <212> TYPE: DNA
      241 <213> ORGANISM: Unknown
W--> 242 <220> FEATURE:
      243 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
      244         variant for the HLA gene
      246 <400> SEQUENCE: 19
      247 gcggcccatg tggcggagca gcagagagcc tacctggagg gcacgtgcgt ggagtggctc   60
      249 cgcagatacc tggaga                                                  76
      252 <210> SEQ ID NO: 20
      253 <211> LENGTH: 32
      254 <212> TYPE: DNA
      255 <213> ORGANISM: Unknown
W--> 256 <220> FEATURE:
      257 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
      258         variant for the HLA gene
      260 <400> SEQUENCE: 20
      261 tggcagctca gaccacccaa ggcaagtggg ag                                32
```

264 <210> SEQ ID NO: 21

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Input Set : **A:\PTO.RJ.txt**
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```
    265 <211> LENGTH: 76
    266 <212> TYPE: DNA
    267 <213> ORGANISM: Unknown
W--> 268 <220> FEATURE:
    269 <223> OTHER INFORMATION: Synthetic oligonucleotide template containing a subset of a
sequence
    270        variant for the HLA gene
    272 <400> SEQUENCE: 21
    273 gcggcccatg tggcggagca gttgagagcc tacctggagg gcacgtgcgt ggacgggctc        60
    275 cgcagatacc tggaga                                                        76
```

VERIFICATION SUMMARY   DATE: 09/15/2005
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Input Set : **A:\PTO.RJ.txt**
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L:23 M:283 W: Missing Blank Line separator, <220> field identifier
L:35 M:283 W: Missing Blank Line separator, <220> field identifier
L:47 M:283 W: Missing Blank Line separator, <220> field identifier
L:60 M:283 W: Missing Blank Line separator, <220> field identifier
L:71 M:283 W: Missing Blank Line separator, <220> field identifier
L:82 M:283 W: Missing Blank Line separator, <220> field identifier
L:93 M:283 W: Missing Blank Line separator, <220> field identifier
L:104 M:283 W: Missing Blank Line separator, <220> field identifier
L:115 M:283 W: Missing Blank Line separator, <220> field identifier
L:126 M:283 W: Missing Blank Line separator, <220> field identifier
L:138 M:283 W: Missing Blank Line separator, <220> field identifier
L:152 M:283 W: Missing Blank Line separator, <220> field identifier
L:164 M:283 W: Missing Blank Line separator, <220> field identifier
L:178 M:283 W: Missing Blank Line separator, <220> field identifier
L:190 M:283 W: Missing Blank Line separator, <220> field identifier
L:204 M:283 W: Missing Blank Line separator, <220> field identifier
L:216 M:283 W: Missing Blank Line separator, <220> field identifier
L:230 M:283 W: Missing Blank Line separator, <220> field identifier
L:242 M:283 W: Missing Blank Line separator, <220> field identifier
L:256 M:283 W: Missing Blank Line separator, <220> field identifier
L:268 M:283 W: Missing Blank Line separator, <220> field identifier
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